

# THE SCIENTIFIC REPORTS OF THE KYOTO PREFECTURAL UNIVERSITY

NATURAL SCIENCE, LIVING SCIENCE AND WELFARE SCIENCE

No. 20

## CONTENTS

### A. NATURAL SCIENCE

T. ISHII

- The thermal neutron activation cross sections of  $^{132}\text{Ba}(n,\gamma)^{133m}\text{Ba}$  and  
 $^{134}\text{Ba}(n,\gamma)^{135m}\text{Ba}$  reactions ..... 1

M. YAMAGUCHI

- Hydrogenation of ethylene on tantalum powder ..... 5

### B. LIVING SCIENCE

M. SATO

- The influences for fibers and their products by molds (The 5th report)..... 15

K. TAGUCHI, M. KAWABATA and Y. HAYASHI

- Studies on egg yolk proteins (I) The fractionation of quail egg yolk proteins..... 21

S. AZUMA

- A theoretical note on the diurnal variation of the room air temperature..... 29

S. HAGIWARA

- The effect of ultrasonic waves on aqueous solutions of dissolved gaseous  
hydrocarbons and some alcohols..... 35

H. NOMURA

- Food hygienic study of frozen foods (I) Testing the freshness of frozen  
fish with special reference to the determination of VB-N ..... 47

Y. OZAKI and H. NOMURA

- Food hygienic study of frozen foods (II) Effect of defrosting and storing  
temperature on the freshness of frozen fish ..... 57

### C. WELFARE SCIENCE

E. NOGUCHI and K. YAMANAKA

- The institutional care of children and culture of children..... 63

Y. HACHIYA

- Differentiation and integration of functional roles of leadership ..... 71

K. TERAMOTO

- The fundamental human right of the client  
—the basis of the practical theory of social casework— ..... 79

N. SONO

- Problems of social welfare in our time (pt. I)..... 83